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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/899,412	07/05/2001	Neal R. Cutler	CUTLER-06326	3297	
23535 75	590 09/09/2004		EXAM	EXAMINER	
	CARROLL, LLP	JOYNES, R	JOYNES, ROBERT M		
101 HOWARD STREET SUITE 350			ART UNIT	PAPER NUMBER	
SAN FRANCIS	SCO, CA 94105		1615		
			DATE MAILED: 09/09/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Appli	Application No. Applicant(s)					
		09/8	99,412	CUTLER, NEAL R.				
		Exam	iner	Art Unit				
		1	rt M. Joynes	1615	·			
Period fo	The MAILING DATE of this communi or Reply	cation appears or	n the cover sheet	with the correspondence a	ddress			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNION IN THE PROPERTY OF THIS COMMUNION IN THE PROPERTY OF THE PROPERTY	CATION. of 37 CFR 1.136(a). In runication. of days, a reply within the tutory period will apply a will, by statute, cause the	no event, however, may e statutory minimum of the and will expire SIX (6) Mo e application to become	a reply be timely filed hirty (30) days will be considered time ONTHS from the mailing date of this of ABANDONED (35 U.S.C. § 133)	∍ly. communication.			
Status								
1) 🖂	Responsive to communication(s) filed	d on <u><i>06 May 200-</i></u>	<u>4</u> .		•			
2a) <u></u> □	This action is FINAL . 2	b)⊠ This action	is non-final.					
3) 🗌	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practic	e under <i>Ex parte</i>	Quayle, 1935 C.	.D. 11, 453 O.G. 213.	•			
Dispositi	on of Claims							
4)🖂	Claim(s) 1-8 and 13 is/are pending in	the application.						
	4a) Of the above claim(s) <u>9-12,14 and 15</u> is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
	6)⊠ Claim(s) <u>1-8 and 13</u> is/are rejected.							
	Claim(s) is/are objected to.							
8)∐	Claim(s) are subject to restrict	ion and/or election	n requirement.					
Applicati	on Papers							
9) 🔲 -	The specification is objected to by the	Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any object	ion to the drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including t							
11)[The oath or declaration is objected to	by the Examiner.	Note the attache	ed Office Action or form P1	ΓΟ-152.			
Priority u	nder 35 U.S.C. § 119							
	Acknowledgment is made of a claim fo ☐ All b)	or foreign priority	under 35 U.S.C.	§ 119(a)-(d) or (f).				
٠	1. Certified copies of the priority d							
	2. Certified copies of the priority d							
	3. Copies of the certified copies of			n received in this National	Stage			
* S	application from the Internation ee the attached detailed Office action			f magained				
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Attachment((s)			•				
	of References Cited (PTO-892)			Summary (PTO-413)				
	of Draftsperson's Patent Drawing Review (PTO ation Disclosure Statement(s) (PTO-1449 or P			(s)/Mail Date Informal Patent Application (PTC)-152)			
Paper	No(s)/Mail Date	. 5.55,667	6) Other:	• • • • • • • • • • • • • • • • • • • •				

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DETAILED ACTION

Receipt is acknowledged of applicant's Amendment and Responses filed on May 6, 2004.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1, 2, 4-8 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Caruso (US 6043244). Caruso teaches a method treating migraines wherein dihydroergotamine is administered with an antimigraine-potentiating amount of an NMDA receptor antagonist (Col. 3, lines 14-58). Caruso contemplates all modes of administration (Col. 6, lines 3-67; Col. 7, lines 1-31). Specifically, sublingual administration is taught in the form of a tablet, drop or lozenge (Col. 6, lines 25-28). Sprays, pastes or gels are also taught by Caruso (Col. 6, lines 30-35, 63-65). The oral tablets further comprise additives such as calcium carbonate, calcium phosphate or

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kaolin (Col. 6, lines 18-24). Additional active agents may be added to the composition (Col. 8, lines 12-27). Caruso recites DHE and its pharmaceutically acceptable salts (Col. 3, lines 14-40). It is the position of the Examiner that any form of DHE, the salt or the base would be acceptable for the formulation of Caruso.

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to formulate a sublingual composition that contains DHE and a pH-adjusting agent. Elimination of an ingredient as well as its function does not impart patentability to a well-known formulation in the absence of said ingredient.

One of ordinary skill in the art would have been motivated to do this to provide a method of treating migraines that is effective and achieves the effect in a short amount of time to bring quick and direct relief to the host.

Therefore, the invention as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made.

Claims 1, 2, 4-8 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Plachetka (US 5872145). Plachetka teaches a method of treating migraines wherein an effective amount of a 5-HT agonist and NSAID are administered to a patient (Col. 13, Claim 1; Col. 3, lines 64-67). The 5-HT agonists include all types of 5-HT agonists, more specifically, 5-HT1, 5-HT1B and 5-HT1D agonists (Col. 8, lines 1-20). Dihydroergotamine mesylate is one such example (Col. 8, lines 1-20). The combination of active agents can be administered parenterally, enterally and topically and can be administered with appropriate carrier as well as other pharmaceutically

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acceptable excipients (Col. 12, line 31 – Col. 13, line 19). The dosage form can be in the form of quick-dissolve tablet (Col. 13, Claim 17).

At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to formulate a sublingual composition that contains DHE and a pH-adjusting agent. Elimination of an ingredient as well as its function does not impart patentability to a well-known formulation in the absence of said ingredient.

One of ordinary skill in the art would have been motivated to do this to provide a method of treating migraines that is effective and achieves the effect in a short amount of time to bring quick and direct relief to the host.

Therefore, the invention as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Caruso or Plachetka in combination with Azria et al. (US 4758423) or Plachetka et al. (US 6495535, hereinafter '535). The teachings of Caruso and Plachetka are discussed above. Neither reference teaches that the DHE is in the base form. It is the position of the Examiner that any form of DHE would be effective in treating migraines. No criticality is seen in DHE being in the form of a base. Applicants have not shown any unexpected results from the base form. Further, the secondary references teach that the base form of DHE is known to be administered for treating migraines (Azria, Col. 3, lines 32-39; Plachetka, Col. 4, lines 1-4).

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At the time the invention was made, it would have been obvious to a person of ordinary skill in the art to use any form of DHE is a method of treating migraines, including the base form.

One of ordinary skill in the art would have been motivated to do this to provide a method treating migraines that is effective and achieves the effect in a short amount of time to bring quick and direct relief to the host.

Therefore, the invention as a whole would have been *prima facie* obvious to one of ordinary skill in the art at the time the invention was made.

Response to Arguments

Applicant's arguments filed May 6, 2004 have been fully considered but they are not persuasive. Applicants argue that the prior art does not teach pH modulating agent. The Examiner would like to point out that both references teach ingredients/components of the formulations that modulate the pH of the environment in which they are placed. Caruso teaches that components such as calcium carbonate can be used (Col. 6, lines 18-24). Further, Plachetka teaches that DHE can be administered with appropriate carrier as well as other pharmaceutically acceptable excipients, including buffers, which can modulate pH (Col. 12, line 31 – Col. 13, line 19). Therefore, applicants' arguments are found unpersuasive.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See

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MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M. Joynes whose telephone number is (571) 272-0597. The examiner can normally be reached on Mon.-Thurs. 8:30 - 6:00, alternate Fri. 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thurman K. Page can be reached on (571) 272-0602. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Robert M. Joynes Patent Examiner Art Unit 1615

THURMAN K PAGE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600